

BONDAREV, K.T., hand. tekhn. nauk; MINAKOV, V.A., inzh.; ZAIKINA, A.A., inzh.

Investigating the composition and the nature of chemical heterogeneities in industrial glass. Stek. i ker. 22 no.8:13-15 Ag '65. (MIRA 18:9)

1. Zavod "Avtosteklo".

BONDAREV, K.T.; MINAKOV, V.A.; TAIKINA, A.A.

Charinal microinhomogeneity of glasses and cyromeration. Iwr.

AN SSSR, Negrg. mat. 1 no.68964-968 vs '65. (MHRA 18:8)

ZAIKINA, I. N. Cand Agr Soi -- (diss) "Selection of maple trees under conditions of Moskovskaya Oblast." Voronegh, 1959. 20 pp (Min of Agr ESFSR. Voronesh Forestry Engineering Inst), 150 copies (KL, 49-59, 141)

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	Methods of Otd.biol.	producing 51164-172	large-graine 62.	ed millet	forms. Tru	(MTRA	16:5]	
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KLYUCHIKOV, Valentin Nikolayevich; MELEROVICH, Anna Yefimovna; ZAIKINA.

(Paralysis] Paralichi. IAroslavl, IAroslavskoe knizhnos izd-vo.

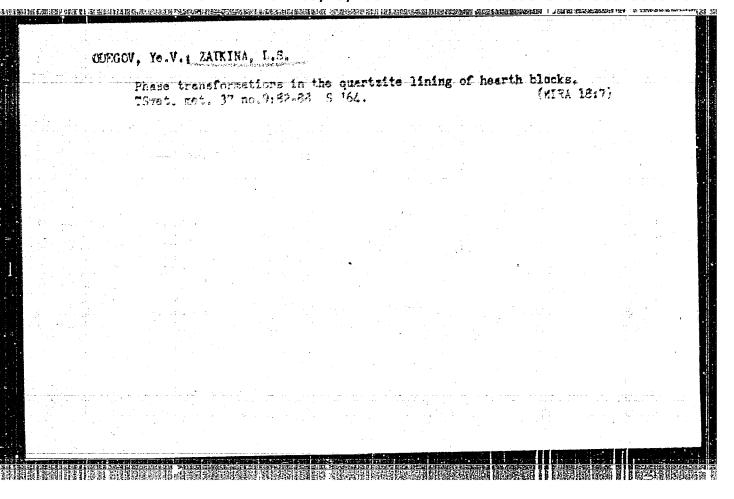
(MIRA 13:9)

(PARALYSIS)

ZAIKIN, Veniamin Mikhaylovich, inzh.; OBFAZTSOV, Vsevolod Vladimirovich, kand.tekhn.nauk, dotsent

Special features of the synthesis of multicycle relay systems with contactless asynchronous elemen's. Izv.vys.ucheb.zav.; elektromekh. 7 no.12:1470-1474 64. (MIRA 18:2)

1. Gidrofizicheskiy institut AN UkrSSR (for Zaikin). 2. Kafedra avtomatiki i telemekhaniki Novocherkasskogo politekhnicheskogo instituta (for Obraztsov).



ZAYKENA, M.G.

ZAIKINA, H. G.

Mbr., Chair Hormal Physiology, Archangelsk Med. Inst., -c1949-.

Mbr., Inst. Physiological im. I. P. Pavlov, Dept. Biol. Sci., Acad. Sci., -c1949-.

"The Problem of Efferential Functions of the Dorsal Nerves: I. Ecle of the Dorsal Nerves in Symphathetic Crbeli-Gine Tsinskiy Phenomena in Cold Blooded

Animals," Fiziol. Zhur. SSSR, 35, No. 4, 1949;

Ginetsinskiy Phenomena in Warm-Blooded Animals," ibid.

ZATKINA, uth I.	e Pathogenesi	s of Utin	Miseases	in the Li gi	t of the Do	ctrine of		
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38280 ZAIKINA, M. T.

Vliyaniye ezerina i atsetilkholina na simpaticheskiy fenomen orbeli-Ginetsinskogo. Sbornik trudov (Arkhang. gos. med. in-t), vyp. 9, 1949, s. 113-23. - Bibliogr: 16 nazv

YELINOV, N.P.; ZAIRINA, N.A.

Some properties of cell extracts from yeast fungi. Biul. 9ksp. biol. i med. 59 no.5:82-84 65. (MIRA 18:11)

1. Leningradskiy khimiko-farmatsevticheskiy institut. Submitted February 4, 1964.

YELINOV, N.P.; FROLOVA, M.A.; ZAIKINA, N.A.

Characteristics of the complement fixation reaction in candidiasis treated by antibiotics and other preparations. Eksp. i klin. issl. po antibiot. 2;110:115 '60.

(COMPLEMENT FIXATION) (MONILIASIS)

(AMTIBIOTICS)

BISTROVA, V.V.; DOBROMYSLOV, V.V.; YELIHOV, N.P.; ZAIKINA, N.A.; KONDRAT'YEVA, A.A.; MEDVEDKOVA, A.A.; SILUYANOVA, N.A.; FROLOVA, W.A.

Study of the antifungal properties and chemotherapeutic activity of antibiotic 26/1. Eksp. i klin. issl. po antibiot. 2;289-295 '60.

(ANTIBIOTICS)

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AUTHOR: Fel dies, Haryukhta, Iu. D.	
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Mordvinove, Ye. T.; Maryukhoup Arkad'yeva, G. Ye. TITLE: Azo-derivatives of benzene as potential antibacterial compounds.	1
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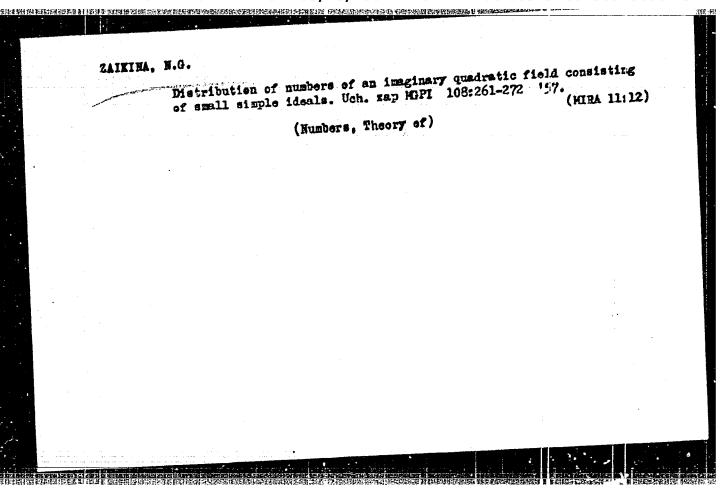
ZAIKINA, N.A.; YELINOV, N.P.; YAKIMOV, P.A.

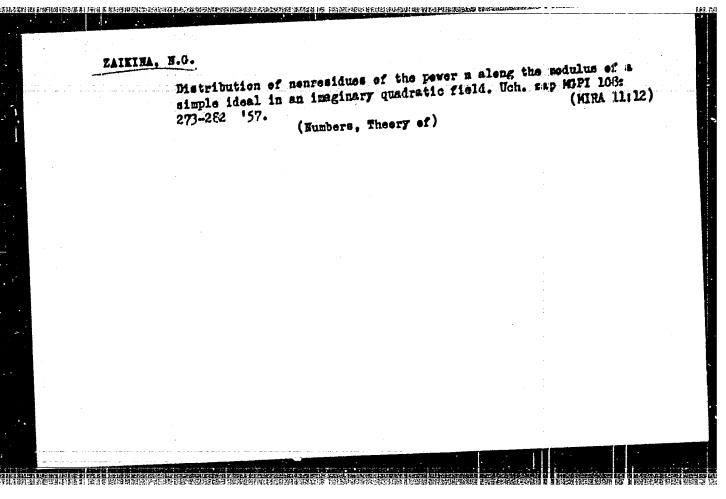
Purification of waste waters in the antibiotics industry. Truly
Lon.khim.-farm.inst. no.15:279-284. '62. (MIRA 15:11)

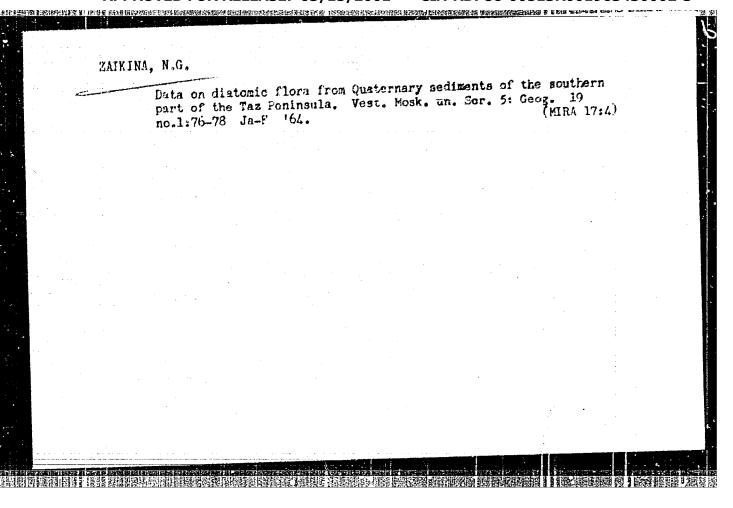
(ANTIBIOTICS) (IMUUSTRIAL WASTES)

	Testing the new ant state in white mice. 160.	(fungal antib Exsp. 4 21 (CANDIJA)	iotic 26/1 on the Cand in. issl. po antibiot. (ANTIBIOTICS)	Lia carrier 2:296-299 (MIRA 15:5)	
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ALESHINSKAYA, Z.V.; ZAIKINA, N.G.; ZHUZE, A.P., doktor geogranauk, red.

系统行用公理系统和创作系统的主新进程,用程序相连,经存品实际的可以来推动。经验证明实验,这一个企业的经验的企业的经验,这一个企业的企业的企业,但是不是一个企业的企业。 -

[Guidebook for practical exercises in a course on "Quaternary geology"; method of diatom analysis] Ruko-vodstvo k prakticheskim zaniatiiam po kursu "Chetvertichnaia geologiia"; metod diatomovego analiza. Moskva, Mosk. gos. univ., 1964. 74 p. (MIRA 18:5)

ZAIKINA, N. G.

"Evaluations of Numerical Functions Connected With Some Problems in the Theory of Imaginary Quadratic Fields." Cand Phys-Math Sci, Moscow State Fedgegical Inst, Moscow, 1953. (RZhMat, Jan 55)

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Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12) SO: Sum. No. 556, 24 Jun 55

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ZAIKINA, R.G. (Kiyev, ul. Seksagenskogo, d. 83, kv. 1); VOHSYATSKIY, V.A. (Eiyev, ul. Chudnovskogo, d. 19, kv. 12)

Distribution of ethylene-substituted phosphoramines in certain tissues and organs of animals. Vop. onk. 4 no.5:557-561 '58. (MERA 12:1)

1. Iz ukrainskogo nauchno-issledovatel skogo sanitarno-khimicheskogo instituta (dir. - dots. N.I. Inganskiy).

(CYTOTOXIC DRUKS, metabolism

bis (1-aziridiny1)-phenylamine phosphine ordde, distribution in various organs in animals (Rus))

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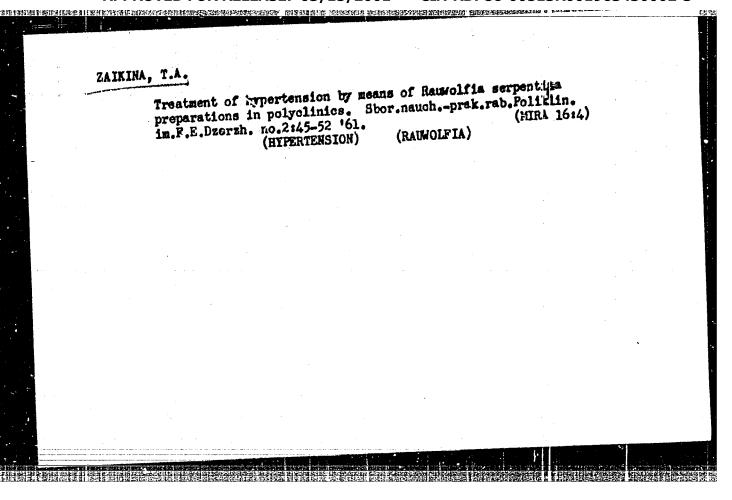
ZAIKINA, T.A.

Work capacity of hypertensive patients before and aften treatment with Rauwolfia preparations in a polyclinic. Sov.med. 26 no.11:104-107 N.62 (MIRA 17:3)

1. Iz polikliniki imeni Dzerzhinskogo (glavnyy vrach - zapluzhennyy vrach RSFSR I.G. Karakozov, zav. terapevticheskim otdeleniyem B.A.Abanesov), Moskva.

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BAZHEMOV, A., insh.; ZAIKINA, V., insh.; IPPOLITOVA, V., insh.

Device for erecting reinforced concrete columns. Ma suroi.

Mosk. 2 no.8:30 Ag '59.

1. Stroitel'nyy uchastok-19 tresta Mosstroy Mo.4.

(Columns, Concrete)

SHCHEGLOV, S.I.; ZAIKINA, V.D.

Effect of technological factors on the compaction of raw forsterite materials. Ogneupory 28 no.7:323-327 163. (MURA 16:9)

1. Dnepropetrovskiy metallurgicheskiy institut.

8/137/61/000/011/008/123 A060/A101

AUTHOR:

Zaikina, V. D.

TITLE:

On the problem of slag stability of fireproof articles

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 11, 1961, 2. abstract 11B12 ("Sb. nauchn. tr. Dnepropetr. metallurg. in-t", 1959, no. 38, 85-90)

The best resistance at high temperatures and low slag additions was demonstrated by Dinas brick and dense forsterite in the study of refractory-slag equilibrium systems. At low temperatures and high slag additions the forsterite chamotte refractories have in all instances demonstrated a low duratility. The greatest destruction was undergone by Dinas refractory and by porous synthetic forsterite on account of the formation of low melting-point silicates. Forsterite refractories, in contradistinction to Dinas trick ones, form with the slags an easily removed crust. Chamotte refractory is destroyed on account of the interaction of the slag with the surface of the refractory and the runof: of the reaction products from it. The greatest durability was shown by magnesitochromite refractory, dunite forsterite, and dense synthetic forsterite. The nature of their destruction is: magnesitochromite and the dunite forsterite are

Card 1/2

On the problem of slag stability ... 8/137/61/000/011/008/123

impregnated with slag, and the dense synthetic forsterite is destroyed as a result of corrosion, dissolution, and slag-saturation.

V. Oparysheva

[Abstracter's note: Complete translation]

Card 2/2

ESSR/Engineering - Power Plants, Electric Engineers, Power Engineers)," Ealko, Engr, 1 1/4 pp In the basis of results in socialistic contition of VNITOE departments, Kiev Integet was swarded first prize and transfer Enter success: (1) mass participation of lev success: (1) mass participation of embers in creative scientific engineering Entific engineering sid in organizational entific engineering matters for improventions and expanding political viewpoints; ginating measures to strengthen creative scientific and industrial workers, emphasimatence of new techniques; (3) aiding in searly 700 members. The King of the strengthen creative in the strengthen creati	100, A. A.	EFFORES BIREARS	PE 152466
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CAIRO A.A.

USSR/Electricity - Personalities

Nov 51

"Professor A. V. Orlovskiy (His 50th Birthday and 25 Years of Pedagogical and Public Activity)," Prof A. D. Nesterenko, Corr Mem. Acad Sci Ukrainian SSR, Prof I. I. Greben'. Dr Tech Sci, Docent V. G. Kholmskiy, Cand Tech Sci, K. V. Zubanov, Chief Engr. Klevenergo, Yu. V. Kartashevskiy, Chief Engr. Glavenergo KKKH, Ukrainian SSR, A. S. Tarasov, Dir. Kiev Heat and Power Sta, A. A. Zayko, Engr

"Elektrichestvo" No 11, p 91

Orlovskiy has been head of the Chair of Central Elec Fower stations, Kiev Polytech Inst since 1937, and Dean of the Elec Engineering Faculty of the latter institute since 1944. At present, he is directing work in the Kiev Polytech Inst on the problem of generating reactive power in mercury-converter units. Orlovskiy has trained more than 1,500 elec engineers.

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EATKONNIKOVA, I. V., RAZUMOV, A. I., and MUNIACHEVA, O. A., (S. M. Kirev Chemical Technological Institute, Kazan, and the Kazan Medical Institute)

"Esters of Alkylphosphonous and Dialkylphosphinic Acids and Their Biological Activity," Khimiya i Premenenie Fosfororganicheskikh Soedinenii (Chemistry and Applications of Organophosphorous Compounds) pp 205-217, 1957

50: A-3,091, 280 full translation

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APONSKAYA, L.S.; ZAIKONNIKOVA, I.V.

Pharmacology of the paranitrophenyl ester of diethylphomhoric scid [with summary in English]. Farm. i toks. 22 no.1:66-69 Ju-F 159.

1. Kafedra farmakologii (sav. - dots. M.A. Aluf) Kazanskogo medi-

(PHOSPHINIC ACID, rel. cpds.
diethylphosphinic acid p-nitrophenyl ester,
pharmacol. (Rus))

ZAIKONNIKOVA, I.V.

Hibuphin, a new cholinomizatic drug. Kaz. med. zhur. no. 2:41-43
Mr-Ap 161. (MIRA 14:4)

1. Kafedra farmakologii (zav. - dotsent T.V. Raspopova) Kizanskogo meditsinskogo instituta.
(PHOSPHINIC ACID)

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Nibuphin, a new antiglaucomatous drug. Kaz. med. zhur. 20. 2:46-48
Mr-Ap '61.

1. Kafedra farmakologii (zav. - dotsent T.V. Raspopova) Kazanskogo
meditsinskogo instituta i kafedra glaznykh bolezney (zav. - prof.
A.N. Kruglov) Kazanskogo gosudarstvennogo instituta dlya usovershenstvovaniya vrachey imeni V.I. Lenina.

(GLAUCOMA) (PHOSPHINIC ACID)

IGNATTEVA, O.A., ZAIKONNIKOVA, I.V., AGONSKAYA, L.S.

Antibacterial properties of organic compounds of phosphorus.

Khimiya i Primeneniye Fosfororganicheskikh Soyedineniy (Chemistry and application of organophosphorus compounds) A. YE. ARBUZOV, Ed. Publ. by Kazar Affil. Acad. Sci. USSR, Moscow 1962, 632 pp.

Collection of complete papers presented at the 1959 Kazan Conference on Chemistry of Organophosphorus Compounds.

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KUDRYAVTSEVA, N.P.; ZAIKONNIKOTA, I.V.; AFONSKAYA, L.S. Effectiveness of new phosphorus organic substances in the treatment of diphtheria. Kaz. Med. Zhur. no.6:41-44 '62. (MIRA 17:5) 1. Kafedra detskikh infektsly zav.-prof. N.P. Kudryavtseva) i kafedra farmakologli (zav.-dotsent T.V. Raspopova) Kazanskogo meditsinskogo instituta.

AFONSKAYA, L.S.; ZAIKONNIKOVA, I.V.; RZHEVSKAYA, G.F.; STUDENTSOVA, I.A.

Mechanism of the action of armin and nibufin. Farm. 1 toks. 26 no.2:184-189 Mr-Ap 163. (MIRA 17:8)

1. Kafedra farmakologii (zav. - dotsent T.V. Raspopova) Kazanskogo gosudarstvennogo meditsinskogo instituta.

AFONSKAYA, L.S.; ZAIKONNIKOVA, I.V.

Search for protective and therapeutic substances in pedsoning with some organophosphorus compounds. Nauch. trudy Kau. gos. med. inst. 14:85-86 '64. (MIE. 18:9)

l. Kafedra farmakologii (zav. - dotsent T.V.Raspopova) Kazanskogo meditsinskogo instituta.

DUNAYEVA, V.G.; ZAIKOMHIKONA, I.V.

Organophosphorus preparations in treating fricheronissis in women. Nauch, trudy kaz, goa, med. inst. 14:117-419 164.

(MIRA 18:7)

1. Kafedra farmskologii (zav. - dotsent T.V.Raspopova) i Z.ya kafedra akushsretva i ginekologii (zav. - prof. Fr. Fr. Meshcherov) Kazanskogo meditsinskogo instituta.

DEREZOVSKIY, B.S.; ZAIKONHIKOVA, I.V.

Mechanism of the protective action of nitufin on the heart in acute radiation sickness in rats. Med. rad. 9 no.2150-32 0 164.

1. Kafedra rentgenologii i rediologii i kafedra farmakologii Kazanskogo meditsinokogo instituta.

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001963430002-3"

ZAIKONNIKOVA, I.V.; KADYROV, M.G.; YARYGINA, G.

Experimental studies of the harmless nature of epoxy compounds as a dental filling material. Nauch. trudy Kaz. gos. med. inst. 14:173-174 164. (MIRA 18:9)

1. Kafedra terapevticheskoy stomatologii (zav. - dotsent G.D. Ovrutskiy) i kafedra farmakologii (zav. - dotsent T.V.Ruspopova) Kazanskogo meditsinskogo instituta.

ZAIKONNIKOVA, I.V.; RASPOPOVA, T.V.

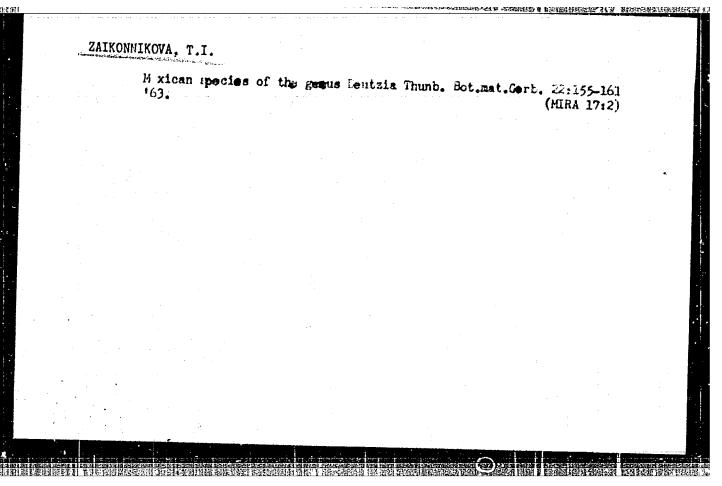
Results of the work of the Pharmacological Department in the study of organophosphorus compounds. Nauch. trudy Kaz. gos. med. inst. 14:175-176 '64. (MIRA 18:9)

l. Kafedra farmakologii (zav. - dotsent T.V.Raspopova) Kazanskogo meditsinskogo instituta.

ARBUZOV, B.A., akademik; VIZEL*, A.O.; ZAIKONNIKOVA, I.V.; STUDENTSOVA, I.A.; DUNAXEV, V.G.; ZVEREVA, M.A.; IVANOVSKAYA, K.M.

Organophosphorus compounds of low toxicity. Dokl. AN SESR 165 no.1:91-94 N '65. (MIRA 18:10)

1. Institut organicheskoy !himii AN SSSR, Kazan', i Kazanskiy gosudarstvennyy meditsinskiy institut.



ZAIKONNIKOWA, T.I.

Critical review of the species of the genus Deutzia Thunb. belonging to the section Mesodeutzia Schneid. Bot.zhur. 4.7 no.2:202-212 F '62. (Deutsia)

ZAIKOV, Aleksandr Matveevich. Geroicheskaia Shatura, pervenets sovetskoi elektrifikatsii.

Moskva, Gosizdat, 1928. 119 p.

DLC: TK1266.54823

SO: LC,Soviet Geography, Part I, 1951, Uncl.

5.4300

28674 8/020/61/140/002/019/023 B130/B110

AUTHORS:

Zaikov, G. I., Mayzus, Z. K., and Emanuel, N. M., Corresponding Member AS USSR

TITLE:

Mechanism of chain ramifications during oxidation of methylethyl

PERIODICAL:

Akademiya nauk SSSR. Doklady, v. 140, no. 2, 1961, 405-408

TEXT: The authors found that the degenerate chain ramification during oxidation of methyl ethyl ketone (I) in liquid phase proceeds through the decomposition into radicals of two intermediate compounds, keto hydro-autoclave and diacetyl. (I) was oxidized with atmospheric oxygen in an ethyl acetate, diacetyl, ethanol, peroxides, CO, and CO₂) were analyzed curve for the (I) consumption (Fig. 1) it may be concluded that the oxidation is a reaction of the first order. In fact, a complicated process low factor before the exponential function in the equation for the constant

Mechanism of chain ramifications ...

28674 \$/020/61/140/002/019/023 B130/B110

of the reaction rate, $k = 5.2 \cdot 10 \exp(11.200/RT) \sec^{-1}$. The chain character of the process was proven by addition of a-naphthol (II) as inhibitor. In the presence of (II), a noticeable induction period occurs, the duration of which rises with increasing inhibitor concentration. The rate of formation of chains during oxidation of (I) was determined from the kinetics of inhibitor consumption: $\omega_0 = 1.5 \cdot 10^{-6}$ mole/liter sec at 145°C. During the process, the rate of initiation rises as compared with a due to the formation of degenerate ramifications. The rate of initiation during the reaction was determined by measuring the consumption. of inhibitor (II) freshly supplied at different time intervals. Fig. 3 shows that the oxidation of (I) proceeds like a chain reaction. The rate of initiation, however, rises to double its value only. For the rate ω of oxidation of (I), it is written down: $\omega = (k_2/\sqrt{k_5})[RCOR_1]\omega_1^{1/2}$. An increase of the reaction rate ω to double its value changes the initiation rate $\omega_i^{1/2}$ by the 1.3-fold only, which leads to a linear dependence of the reaction rate on the concentration of (I), i.e., to a reaction of the first order. The rate of chain ramification during oxidation of (I) rises in proportion with the accumulating amount of keto hydroperoxide only at the Card 2/6

8/020/61/140/002/019/023 Mechanism of chain ramifications beginning of the reaction. Later on, a higher total rate of formation of radicals is observed than corresponds to the decomposition of keto hydroperoxide into free radicals. This shows that, besides keto hydroperoxide, other intermediates participate in the chain ramification during exidation of (I). The assumption of a cooperation of discetyl (formed in this reaction and readily decomposable into two radicals) was confirmed by an increasing rate of chain ramification on addition of diacetyl. The dependence of the ramification rate on the total concentration of keto hydroperoxide and discetyl is calculated: (1). $W_1 = k_1 \{D\}_1 + k_2 \{P\}_1 = k_1 \{\{D_1\} + \frac{k_2}{k_1} \{P\}_1\}$ Here, ω_1 is the rate of initiation at a certain instant of the reaction; [D] and [P] are the concentrations of diacetyl and keto hydroperoxide. On admixture of an additional amount of discetyl, Eq. (1) obtains the form: $w_1 = k_1 \{D\}_1 + k_2 \{P_1 = k_1 \} \{D\}_2 + \frac{k_2}{k_1} \{P\}_1$ + $(k_2/k_1)[P]_1$ /{[D]₂ + $(k_2/k_1)[P]_1$ }...k₂/k₁ can easily be Card 3/6

Mechanish of chain ramifications ... 8/020/61/140/002/019/023 B130/B110

calculated since the other data are experimentally determined. The authors found for k₁ at 145°C: 1.0·10°5 sec-1, for k₂: 1.4·10°4 sec-1.

There are 4 figures and 14 references: 11 Soviet and 3 non-Soviet. The three references to English-language publications read as follows: W. D. Emmons, G. B. Lucas, J. Am. Chem. Soc., 77, 2287 (1955); J.S. F. Pode, W. A. Waters, J. Chem. Soc., 1956, 717; W. A. Waters, J. Chem. Soc., 1946, 1151.

ASSOCIATION: Institut khimicheekoy fiziki Akademii nauk SSSR (Institute of Chemical Physics of the Academy of Sciences USSR)

SUBMITTED: May 20, 1961

Fig. 1. Kinetic ourses for the consumption of methyl ethyl ketone and the accumulation of reaction products at T = 145°C, pressure = 50 atm, and air velocity = 20 liters/hr. (1) Consumption of methyl ethyl ketone, (1') semilogarithmic anamorphosis of curve 1, (2) accumulation of acetic acid, (3) CO₂, (4) CO, (5) ethyl acetate, (6) diacetyl, (7) keto hydroperoxide (right-hand scale), (8) ethanol (right-hand scale).

Legend: (a) hr, (b) mole#.

ZAIKOV, G.I.; MAYZUS, Z.K.; EMANUEL', N.M.

Mechanism of chain branching in the liquid phase exidation of methyl ethyl ketone. Dokl. AN SSSR 140 no.2:405-408 S '61.

(MIRA 14:9)

1. Institut khimicheskoy fiziki AN SSSR. 2. Chlen-korrespondent AN SSSR (for Emanual').

(Ketone) (Oxidation)

KOVALEVA, Z.Ya.; ZAIROV, G.K.; SAFONOVA, S.Kh.

Therapeutic effect of mexamine. Preliminary report. Tridy 1-go MMI 34:434-439 164. (MIRA 18:11)

1. Kafedra psikhiatrii (zav. - zasluzhennyy deyatel' muki prof. V.M. Banshchikov) l-go Moskovskogo ordena Lenina meditsinskogo instituta imeni Sachenova.

88359

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8/195/60/001/004/004/015 B017/B055

AUTHORS:

Blyumberg, E. A., Zaikov, G. Ye., Maysus, Z. E., Emanueli,

CHARLES AND EARLY BE INTERPRESENTATION OF THE PROPERTY OF THE

TITLE:

Oxidation of Ethyl Alcohol in the Liquid- and the Gaseous

Phase Under Comparable Conditions

PERIODICAL:

Kinetika i kataliz, 1960, Vol. 1, No. 4, pp. 510-518

TEXT: The kinetics of ethyl alcohol oxidation in the liquid- and the gaseous phase were investigated at various temperatures and pressures. Oxidation of ethyl alcohol in the liquid phase was carried out at 145-230°C and 52-95 atn. The kinetic curves representing the ethyl alcohol consumption and the enrichment of the reaction-product during liquid-phase oxidation at 52 atm and 145, 200, and 230°C appear in Fig. 1. The reaction rate increases with temperature. The activation energy of ethyl alcohol oxidation in the liquid phase is 10.2 koal/mole. The. reaction products of ethyl alcohol oxidation in the liquid phase at 200°C and 52 atm are tabulated. The main reaction products of oxidation in the liquid phase are acetic acid and ethyl acetate. Fig. 2 shows the Card 1/3

Oxidation of Ethyl Alcohol in the Liquid- and the Gaseous Phase Under Comparable Conditions

8835 8/195/60/001/004/004/015 B017/B055

kinetic curves of ethyl alcohol consumption and enrichment of reaction products during oxydation at 230°C and 52, 70, and 95 atm. The corresponding curves for oxidation in the liquid phase at 52 atm and 145 and 200°C over cobalt acetate are shown in Fig. 3. Both the reaction kinetics and the composition of the reaction products in gaseque phase oxidation of ethyl alcohol differ from those in liquid phase oxidation. In gaseous phase oxidation, CO and acetaldehyde are the main reaction products. The kinetic curves of ethyl alcohol consumption and the enrichment of the reaction product during gaseous phase oxidation (200°C 20 atm) at ethyl alcohol concentrations of 2.6 · 10-3 and 0.54 × 10-3 mole/cm are represented in Fig. 4. Fig. 5 shows the corresponding curves for temperatures of 200, 230, 250, and 260°C and 20 atm at alcohol concentrations of 2.6 · 10-3 mole/cm2. The influence of temperature on the gaseous phase oxidation of ethyl alcohol at 200 and 280°C and 200 atm se illustrated in Fig. 5. The CO and CH4 contents of the reaction products increase with temperature. The activation energy for the oxidation of ethyl alcohol in the gaseous phase is 18 kcal/mole. N. N. Semenov is mentioned. There are 5 figures, 1 table, and 21 references: 7 Soviet, 8 British,

Card 2/3

Oxidation of Ethyl Alcohol in the Liquid- and 88359 the Gaseous Phase Under Comparable Conditions 8/195/60/001/004/004/015 B017/B055

3 US, 1 Italian, 1 Indian, and 1 Swiss.

ASSOCIATION: Institut khimicheskoy fiziki AN SSSR (Institute of Chemical Physics of the AS USSR)

"我们们的对象的,我们还是我们的是是我们的是是不是的的,我们就是不是的的,我们们就是我们的,我们就是我们的是是我们的是是我们的。""

SUBMITTED: June 10, 1960

Card 3/3

BLYUMBERG, E.A.; ZAIKOV, G.Ye.; MAYZUS, Z.K.; EMARUEL', N.M.

Differences in the exidation mechanisms of ethyl alcohol in the liquid and gaseous phases. Dokl.AH SSSR 133 no.1: 144-147 J1 60. (MIRA 13:7)

1. Institut khimicheskoy fiziki Akademii mauk SSSR. 2. Chlen-korrespondent AN SSSR (for Emanuel').

(Ethyl alcohol) (Oxidation)

81728 s/020/60/133/01/40/070 B004/B007 Blyumbers, E. A., Zaikov, G. Ye., Mayzus, Z. K., USSR Emanuel', N. M., Corresponding Member of the AS USSR 5.3200 The Differences in the Oxidation Mechanism of Ethyl Alcohol AUTHORS: in the Liquid and in the Gassous Phase Doklady Akademii nauk SSSR, 1960, Vol. 133, No. 1, TITLE TEXT: In the preceding papers (Refs. 1, 2) some of the authors found that PERIODICAL: the oxidation of n-butanelin the liquid state is more advantageous than in the gaseous state. In the liquid state, the reaction develops at lower the gaseous state. In the rate, it is more selective and such products of temperature and at a high rate, it is more selective and such products. an intensive oxidation as are characteristic of the reaction in the gaseous phase lack nearly entirely. N. N. Semenov (Ref. 3) explained this difference by a change in the ratio of two competitive reactions: ence by a change in the ratio of two competitive reactions: $R0^{\circ}_{2} \longrightarrow R^{\circ}0^{\circ} + R^{\circ}0H$ (1) and $R0^{\circ}_{2} + RH \longrightarrow R0_{2}H + R^{\circ}$ (2). Low pressure and high temperature are intended to promote the course of reaction (1), high pressure and low temperature are expected to promote that of reaction (2). Card 1/3

The Differences in the Oxidation Mechanism of Ethyl 8/020/60/133/01/40/070 Alcohol in the Liquid and in the Gaseous Phase B004/B007

For the purpose of checking this assumption, the authors investigated the oxidation of ethanol in the liquid phase (200°C, 50 atm) and in the same autoclave also the oxidation in the gaseous phase at reduced pressure (20 atm). The results of both reactions are compared in Fig. 1. The following characteristic features for these two reactions were observed. 1) Liquid phase: No induction period, high acetic acid- and othyl acetate yield, low yield of CO, small quantities of acetic aldehyde, which appears only as an intermediate product. 2) Gaseous phase: Long induction period (10 h), slow course of reaction, little acetic acid and ethyl acetate, much CO, and acetic aldehyde as the main product. Formic acid and peroxide in both cases form in only small quantities, because they are not stable under the experimental conditions selected. The authors discuss these results on the basis of reaction equations. As the concentration of alcohol under the experimental conditions in transition from the liquid to the gaseous phase is reduced only to 1/5, this alone cannot be the cause of such a difference in the course of the reaction. By calculating the ratio k_2/k_1 of the rate constants of the reactions (1) and (2), they find that k_2/k_1 , in transition from the liquid to the gaseous phase, does not Card 2/3

The Differences in the Oxidation Mechanism of 81728 Ethyl Alcohol in the Liquid and in the Gaseous B004/B007

change by the five-fold but a thousand-fold. The main factor of the difference in the course of the reaction is therefore not the greater density of the liquid phase, but a specific behavior of the liquid phase, which may be caused either by intermolecular hydrogen bonds or by the reaction of ions lacking in the gaseous phase. There are 1 figure and 4 Soviet references.

ASSOCIATION: Institut khimicheskoy fiziki Akademii nauk SSSR (Institute of Chemical Physics of the Academy of Sciences, USSR)

SUBMITTED: March 29, 1960

Card 3/3

5.5600

77758 SOV/75-15-1-20/29

AUTHOR:

Zaikov, G. Ye.

TITLE:

Separation of Lower Aliphatic Alcohols by Paper Chromatography and Their Quantitative Determination

PERIODICAL:

Zhurnal analiticheskoy khimii, 1960, Vol 15, Nr 1,

pp 104-108 (USSR)

ABSTRACT:

The 3,5-dinitrobenzoates of methyl, ethyl, propyl, and butyl alcohols were determined. To the mixture of alcohols were added 0.5 ml of pyridine and a saturated benzene solution of 3,5-dinitrobenzoyl chloride. The mixture was heated at 50-60° for 10-15 ninutes. Absolute methyl alcohol was used as the stationary phase and hexane, hertane, or nonane, as the mobile phase. Ascending chromatography was used in the majority of cases. The solution, containing esters of 3,5-dinitrobenzoic acid, was deposited on the strip of acetylated paper (120 X 130 mm) 20 mm from the

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Separation of Lower Aliphatic Alcohols by Paper Chrcmatography and Their Quantitative Determination

77759 SOV/75-15-1-20/29

edge of the paper. The paper was placed in a chromatography chamber after drying. The method of the separation is described by D. F. Deigh (Nature, 169, 706 (1952). Yanovski reagent was used as a developer. The results of the qualitative determination of alcohols are shown in Table 1. The quantitative determination of alcohols was based on the absorption of light by colored compounds formed after chromatograms were sprayed with Yanovski reagent. The optical density of alcohol derivatives its directly proportional to the concentration. The error of the method is 1.5%. The quantitative determination of alcohols is possible in the presence of water and hydrocarbon oxidation products. There are 5 figures; 3 tables; and 23 references, 7 loviet, 7 U.K., 6 U.S., 2 Japanese, 1 Austrian. The 5 most recent U.S. references are: Holley, A. D., Holley, R. W., Analyt Chem., 24, 216 (1952); Rise, R. G., Keller, D. J., Kirchner, J.

Card 2/4

Separation of Lower Aliphatic Alcohols by Paper Chromatography and Their Quantitative Determination

77758 80**V/**75-15-1-20-29

Table 1. (a) The value of R, for 3,5-dinitribenzoates of alcohols on different samples of acetylated paper; (b) Type of paper; (c) Moving phase; (d) Methyl alcohol; (e) Ethyl alcohol; (f) Propyl alcohol; (g) n-Butyl alcohol; (h) Hexane; (i) Heptane; (j) Monane.

(a)

(b.)		R	/ (/+=26°	, 1 = 250	m #	L	(c)	Rf (1==20°, 1-280 pm					
	(0)	(d)	(2)	of)	191			(d)	(£)	(f)	(9.)		
	(k) 1 2 (j)	0,46 0,36 0,32 0,32 0,22	0,61 0,50 0,50 0,51 0,32	0,68 0,63 0,61 0,61 0,43	0,77 0,67 0,71 0,72 0,51	11 11 11 111 1V	(4) (k) (k)	0,44 0,19 0,26 0,25 0,33	0,36 0,33 0,36 0,36 0,54	0,41 0,44 0,49 0,43 0,72	0,51 0,52 0,62 0,52 0,52 0,84		

Card 3/4

Separation of lower Aliphatic Alcohols by 77758

Paper Chromatography and Their Quantitative SOV/75-15-1-20/29

Determination

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Analyt. Chem., 23, 194 (1951); White, J. W., Dryden, E. C., Analyt. Chem., 20, 853 (1948); Henze, P. E., Analyt. Chem., 27, 1349 (1955); Spanyer, Y. W., Phillips, Y. P., Analyt. Chem, 28, 253 (1956).

ASSOCIATION:

Institute of Chemical Physics of the Academy of Sciences of the USSR, Moscow (Institut khimicheskoy fiziki AN SSSR, Moscowa)

SUBMITTED:

November 20, 1958

Card 4/4

BLYUMBERG, E.A.; ZAIKOV, G.Ye.; EMANUEL', N.M.

Gas- and liquid phase oxidation of n-butane. Neftekhimiia 1 no.2:235-243 Mr.Ap '61. (MIRA 15:2)

1. Institut khimicheskoy fiziki AN SSSR. (Rutane) (Oxidation)

BLYUMBERG, E.A.; ZAIKOV, G.Ye.; EMANUEL', N.M.

Oxidation of n-butane in the gaseous and liquid phases. Dokl. AN SSSR 139 no.1:99-101 J1 '61. (MINA 14:7)

中国。1943年18日12年19年,中华共享共享的建筑社会的发展的影响的主要的影响,是特殊的特殊的发展的影响。1948年18月18日的发展的发展的影响的影响的影响

1. Institut khimicheskoy fiziki AN SSSR. 2. Chlen-korrespondent AN SSSR (for Example).

(Butane) (Oxidation).

ZAIKOV, G.Ye.; MAYZUS, Z.K.

Oxidation of methyl ethyl ketone in the liquid and gas phases. Kin.i kat. 3 no.6:846-854 N-D '(2. (MIRA 15:12)

1. Institut khimicheskoy fiziki AN SSSR.
(Butanone) (Oxidation)

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ZAIKOV, G.Ye.; MAYZUS, Z.K.

Reasons for the difference in the mechanism of oxidation of organic substances in gas and liquid phases. Izv.AN SSSR.Otd. khim.nauk no.7:1175-1184 J1 162. (MIRA 15:7)

1. Institut khimicheskoy fiziki AN SSSR.
(Organic compounds) (Oxidation)

第三十四個 机设计可多位率 1 使不同的分类的 使无力失败 "他们的这种,我们的这种,我们是这种是这种的人,我们还是这个人,我们还是这个人,我们就是这个人,我们

5/062/62/000/007/002/013 B117/B180

Zaikov, G. Ye., and Mayzus, Z. K. AUTHORS:

Reasons for the different mechanism of oxidation of organic TITLE:

substances in gas or liquid phases

Akademiya nauk SSSR. Izvestiya. Otdeleniye khimicheskikh PERIODICAL: nauk, no. 7, 1962, 1175 - 1184

TEXT: Methods described in previous papers (E. A. Blyumberg, G. Ye. Zaikov, and N. M. Emanuel', Dokl. AN SSSR, 139, 99 (1961); Neftekhimiya 1, 235 (1961); E. A. Blyumberg, G. Ye. Zaikov, Z. K. Mayzus, and N. M. Emanuel, Dokl. AN SSSR 133, 144 (1960); Kinetika i kataliz 1, 510 (1960); G. Ye. Zaikov and Z. K. Mayzus, Kinetika i kataliz (1962); E. A. Blyumberg, Z. K. Mayzus, and N. M. Emanuel', ab. "Okieleniye uglevodorodov z zhidkoy fame" ("Oxidation of hydrocarbons in the liquid phase"), Izd. AN SSSR, M., 1959, p. 125; G. Ye. Zaikov, Zh. analit. khimii 15, 104 (1960); 15, 639 (1960); 17, 117 (1962)) were used to study the oxidation of ethyl alcohol and methyl-ethyl ketone with different amounts of benzene. Experiments with ethyl alcohol: 20000, 50 atm., alcohol : benzene ratio

Card 1/3

Reasons for the different mechanism...

Card 2/3

8/062/62/000/007/002/013 B117/B180

= 8 : 1, 2 : 1, 1 : 1; 1 : 2, and 1 : 3. Experiments with methyl-ethyl ketone: 145° C, 50 atm., ketone : benzene ratio = 1 : 1, 1 : 2_1 1 : 3. In both cases, an increase in benzene, which reduces the dielectric constant of the medium, was found to alter the composition of reaction products. With ethyl alcohol, the amount of products obtained from the bimolecular reaction of peroxide radicals was 20% at 1 : 3, and 80% in pure alcohol. With methyl-ethyl ketone, (1:3) the reaction products had the same composition as with oxidation in the gas phase. Differences in the oxidation mechanisms of polar organic compounds in gas and liquid phases are due to the rate of the reaction between the peroxide radical and the oxidizing substance (bimolecular reaction), the dielectric constant of the medium, and the formation of intermolecular hydrogen bonds. The bimolecular reaction between RO and the test material, is between two dipoles and slows down as polarity decreases. Good agreement between experimental and calculated dipole moments confirms the structure assumed. for the activated complexes in the case of methyl-ethyl ketone, but not for ethyl alcohol. This shows that the reaction rate of RO2 and ethyl alcohol is not only dependent on the polarity of the medium but also on

Reasons for the different mechanism...

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B117/B180

the formation of intermolecular hydrogen bonds. It is not the individual molecules (RH and RO2) which react, but aggregates consisting of five or more particles linked by hydrogen bonds. There are 5 figures and 3 tables.

ASSOCIATION: Institut khimicheskoy fiziki Akademii nauk SSSR (Institute of Chemical Physics of the Academy of Sciences USSE)

SUBMITTED: January 30, 1962

的。此类的能够是通过。 10.000 配针形式的类似的表现的是,是是是可能能够完全是是这些的影响的。10.0000 10.0000 可能能够是是是的特别的影响的。10.0000 10.0000 对于10.0000 可能能够多数的。10.0000 可能能够多数的影响的影响。10.0000 可能能够多数的影响的影响。10.0000 可能能够多数的影响。10.0000 可能能够

ZAIKOV, G.Ye.; MAYZUS, Z.K.

Polarity of the medium as effecting the activation energy of the chain continuation reaction in the oxidation of ethyl alcohol and methyl ethyl ketons. Dokl. AN SSSR 150 no.1:116-119 My '63.

(MIRA 16:5)

N. N. Semenovym.

(Ethyl alcohol) (Butanone) (Oxidation) (Activation energy)

金融组制的组织制度 管理中心结婚的经验的证明证明中的声音或是传统的证明中的直接的音频者主张。全部和中国的法院可以自然的相对自然的情况的主张的情况是是他的情况是是他的情况,是他们的特别的特别,这个人

ZAIKOV, G.Ye.

Effect of solvent on the liquid phase exidation of ethyl alcohol and methyl ethyl ketone. Neftekhimiia 3 no.3:381-389 My-Je '63. (MIM 16:9)

1. Institut khimicheskoy fiziki AN SSSR. (Ethyl alcohol) (Ketone) (Oxidation)

ZAIKOV, G. Ye.; MAYZUSY Z.K.; EMANUEL', N.M.

Initiation of chains in the liquid-phase exidation of methylethyl ketone and ethyl alcohol. Neftekhimisa 4 no.1191-95.64 (MIRA 17:6)

1. Institut khimicheskoy fiziki AN SSSR.

MANUEL', Mikolay Markovich; EENISOV, Yevgeniy Timofeyevich;

MAYZUS, Zinaida Kushelevna. Prinimali uchastie:

ANTONOVSKIY, V.L.; BLYUMBERG, E.A.; VASIL'YEV, R.F.;

GAGARINA, A.B.; GOL'DEERG, V.M.; ZAIKOV, G.Ye.; DORIKOV,

Yu.D.; OBUKHOVA, L.K.; TSEPALOV, V.F.; SHIXAPINTOKH,

V.Ya.; SKIBIDA, I.P., red.

[Oxidation chain reactions of hydrocarbons in the liquidphase] TSopnyo rockts[1 okislonida uglevodorodov v zhidkoi faze. Moskva, Nauka, 1965. 374 p. (MIRA 18:8)

8/075/60/015/005/025/026/XX B002/B056

AUT'HOR:

Zaikov, G. Ye.

TITLE:

The Separation of the Low Aliphatic Aldehydes and Ketones by

Means of the Method of Paper Chromatography, and Their

Quantitative Determination

PERIODICAL:

Zhurnal analiticheskoy khimii, 1960, Vol. 15, No. 5,

pp. 639-642

TEXT: It was the purpose of the present paper to develop a method for the qualitative and quantitative analysis of carbonyl compounds in a mixture of aliphatic aldehydes and ketones (C₁ - C₄) formed in the exidation of nobutane. For this purpose the paper-chromatographic separation of the corresponding 2,4-dinitrophenylhydrazones was applied. The ordinary chromatographic paper of the type Manuscraaka shurgas (Leningradskaya bystraya) must, for this purpose; first be made hydrophobic by acetylation with acetic acid anhydride. The R_f-values are, to a considerable extent, dependent on the manner of this pre-treatment;

Card 1/4

 The Separation of the Low Aliphatic

Aldehydes and Ketones by Means of the Method

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Aldehydes and Chromatography, and Their

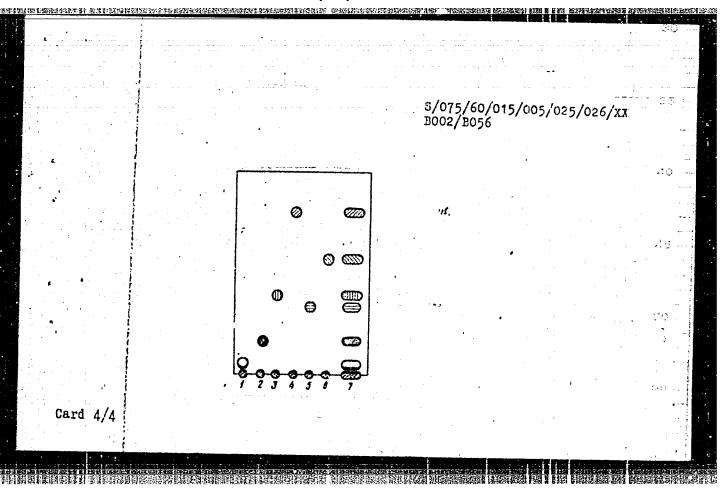
Quantitative Determination

however, the R_f-values are well reproducible on papers of one and the same lot. Good separation was obtained with quantities of 10-6 g/mole; as a mobile phase, hexane, heptane or nonane was used; the effect being approximately the same with all these solvents. Fig. 1 shows a schematical chromatographic pattern at 2000, where (1) denotes formaldehyde; (2) acetaldehyde. (3) propionaldehyde, (4) butyraldehyde, (5) acetone, (6) acetaldehyde. (3) propionaldehyde, (4) butyraldehyde, (5) acetone, (6) methylethylketone, and (7) a mixture of these substances, 2,4-dinitrophenyl hydrazine always has R_f = 0. Oxidation products such as pencides, alochols, acids, ether, and water do not affect the chromatographic electronic in quantities such as are usually formed in the oxidation of the hydrocarbons. The spots were dyed by means of a 5% solution of KOH in methanol, cut out and the dinitrophenyl hydrazones are extracted and colorimetrically determined. The calibration curve practically takes the same course for all substances mentioned. An analysis of an artificial mixture shows that the error in the determination of aldehydes and acetones is less than 6%, and amounts to 10% only in the case of

Card 2/4

The Separation of the Low Aliphatic \$\(\frac{5}{60}\)/015/005/025/026/XX 'Aldehydes and Ketones by Means of the Method B002/B056 of Paper Chromatography, and Their Quantitative 'Determination methylethylketone. The author thanks N. M. Emanuel' and Z. K. Mayzua for discussions. There are 2 figures, 2 tables, and 18 references: 4 Soviet, 7 British, 4 US, and 3 Czech. ASSOCIATION: Institut khimicheskoy fiziki AN SSSR, Moskva (Institute of							
SUBMITTED:	Chemical Physics AS USSR, Moscow) September 22, 1959						

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001963430002-3



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ZAIKOV, G.Ye.

Separation of lower aliphatic aldehydes and ketones by means of paper chromatography, and their quantitative determination. Zhur. anal. khim. 15 no.5:639-642 S-0 '60. (MIEA 13:10)

1. Institute of Chemical Physics, Academy of Sciences, U.S.S.R., Koscow.

(Aldehydes) (Ketones)
(Chromatographic analysis)

ACC NR. AP6027349	SOURCE CODE:	BU/0011./65/018/012/	1095/2093
AUTHOR: Zaikov, R.			2
ORG: none			
TITIE: Baryon classificati	ion and masses		
SOURCE: Bulgarska akademiy	ya na naukite. Doklady, v. 18	, na. 12, 1965, 1095	-1093
TOPIC TAGS: baryon, partic	cle physics		
use of the Flato-Sternheim and establishes several em- results with known mass val- presented by Academician H.	oduces a new baryon supermitti or mass formula, postulates a pirical formulas. The system lues. Fourteen new baryons are Hristov on 21 September 1965 rig. art. in Eng. JPRS: 36	mass difference relation relations in the state of the comparist of the second relations of the second	tionship, ng its aper was
formulas and 3 tables. [On			
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ACC NRI AP6027984	SOURCE CODE: BU/0011/6	6/019/001/0017/0019
AUTHOR: Zaikov. R. ORG: Instituto of Physics, BA	W.	31 B
TITIE: Classification and mass SOURCE: Bulgarska akademiya r TOPIC TAGS: meson, elementary	na naukite. Doklady, v. 19, no. 1, 1	966, 17-19
now mass formules substituting 4) obtains better values for the from the Flato-Sternheimer for multiplets which exhibit an excessionance states while for best	The author 1) introduces a new schem les; 2) introduces new prescriptions; g for the Gell-Man and Okubo expressithe equation parameters λ_1 and λ_2 mula; and 5) establishes a table of quality of the 0 and p parities for a sic mesons they have opposite signs.	5) proposes on; than those isotopic ill This paper was
prosented by Academician H. Hr [JPRS: 36,845]	ristov on 21 September 1965. Ørig.	art. in Eng.
SUB CODE: 20 / SUBM DATE:	21Sep65 / OTH REF: 002	
rest Card 1/1		

	Zaiker, Rashko, Quantum inechanical characteristics and elementary particles. W.C. R. Acad. Bulgare Sci. 10 (1957), 101-103. (I plate). (Russian summary) The scheme for classification of elementary particles proposed by Salam and Polkinghorne [Nuovo Cimento (10) 2 (1955), 685-690] is extended to include leptons. The following empirical mass formulae are shown to hold $M \sim 3(8r_1 + r_2)m_e$ for bosons;			The state of the s
cc	$M \sim 3[8(r_1+1)+r_2]m_e$ for fermions. Here r_1 is a specific integer (11 for pions, 76 for nucleons, 90 for Λ^0 etc.) and r_2 takes the values 0, 1, 2, 3.	i. T		The state of the s
promoved in the season of the	A. Salem (London).			į
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ZAIKOV, R.

"A symmetrical form of the quantum mechanics of nucleons."

IZVESTIIA. SERIIA FIZICHESKA, Sofiia, Bulgaria, Vol. 6, Jan./Dec. 1956 (published 1957).

Monthly List of East European Accessions Index (EEAI), The Library of Congress, Volume 8, No. 8, August 1959.

Unclassified

ZAIREN, KARING BULGARIA/Theoretical Physics - Quantum Theory of Fields

B-6

Mbs Jour : Ref Zhur - Fizika, No 10, 1958, No 22125

Muthor Inst

: Zaikov Rashko Physics Institute, Bulgerian Academy of Sciences,

1 On the Symmetrical Form of Quantum Mechanics for the Nucleon. Title

Orig Fub : Izv. B"lg. AN. Otd. fiz.-metem. 1 tokhn. 1. Sor. fiz., 1957.

Abstract: To describe the nucleon, it is proposed to use a 7-dimentional space, which is a combination of the Minkowsky 4-space and the isotopic 3-spece. The wave function is considered to be an 8-component spinor, of which the first four components correspond to a charged state of the nucleon, and the four last components to the neutral state of the nucleon. In accordance with the general theory of spinors, the matrices of oighth order 1 1,..., 17, ere derived, encloseus to the Direc metrices 2 1,..., 5. The principal equation for the nucleon, which go over in the perticular case into the

Direc equation, is written in the form

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BULGARIA/Theoretical Physics - Quentum Theory of Fields

B-6

Abs Jour : Ref Zhur - Fizike, No 10, 1958, No 22125

$$\sum_{i=1}^{7} \Gamma_{i} D_{i} + A_{0} w = 0,$$
 (1)

where $\omega = \varphi(x)$ exp (isok ξ), so and so are constants, and x and ξ denote the first four in the last three coordinates. By is made up of pertial derivatives with respect to the corresponding coordinates and of eighth-order matrices, which are linear combinations of 1, $\int_{-1}^{1} \int_{-1}^{1} dx \, dx \, dx$, which are linear combinations of 1, $\int_{-1}^{1} \int_{-1}^{1} dx \, dx$ and $\int_{-1}^{1} \int_{-1}^{1} \int_{-1}^{1} dx \, dx$. It is assumed that the coefficients in these matrices cherencetorize the interactions with all types of fields, including the fields of different mesons, and that in the first approximation they should be linear functions of the corresponding vector and pseudo-vector potentials and of the derivatives of the potentials with respect to the four coordinates. For the particular type of the interaction, an explicit form of Eq. (1) is given. At the end of the work the author determines, with the sid of the first four matrices $\int_{-1}^{1} dx \, dx$ in analogy with the Dirac equation, the vector of the current, 2/2 the pseudo-vector of the spin, and the energy-momentum

X

ZAIKON KASAKO

BUIGARIA/Nuclear Physics - Elementary Particles

C-3

Abs Jour: Ref Zhur - Fizika, No 5, 1958, No 10142

Author : Zaikov Rashko

Inst : Not Given

Title : Quantum Mechanical Characteristics and Elementary Particles

Orig Pub: Dokl. Bolg. AN, 1957, 10, No 2, 101-103

Abstract: The author considers the classification of elementary particles in four dimensional isotopic space. All the heavy charged mesons are considered as one pseudoscalar particle. The neutral heavy mesons form an independent doublet. In the classification variant proposed it is possible to dispense with introducing the lepton charge. However, it becomes necessary to introduce a hypothetical scalar neutral meson with mass close to the mass of the experimentally observed neutral pion. The table is given for the classification of elementary particles and the types of their decay.

Card : 1/1

BULGARIA/Nuclear Physics - Elementary Particles.

C

Abs Jour : Ref Zhur Fizika, No 10, 1959, 22005

In the version of the theory considered, strong interactions of the pype $\bigwedge - \succeq - \pi$ are found to be forbidden; the wave functions of the K mesons and their antiparticles are connected by the relations $K^{+\alpha*} = K^{-}$, $K^{0*} = -K^{0}$. The ω^{0} meson cannot decay rapidly into three pions. -- V.S. Barashenkov

Card 2/2

BULGARIA/Nuclear Physics - Elementary Particles.

r

Abs Jour

: Ref Zhur Fizika, No 11, 1959, 24446

Author

: Zaikov, Raschko

Inst

: Physics Institute, Bulgarian Academy of Sciences

Title

: Isotopic Bi-Space Theory. II.

Orig Pub

: Dokl. Bolg. AN, 1958, 11, No 4, 259-262

Abstract

: Using the formalism previously developed (Referat Zhur Fizika, 1959, No 10, 22005), the author writes but the interaction Lagrangians for various types of particles,

charge operators, and baryon numbers.

Card 1/1

- 21 -

Zaikov, Rashko, starshi mauchen sutrudnik.

Substance and antisubstance. Hat i fiz Bulg 5 no.2:58-59 Hr-Ap '62

1. Fizicheski institut BAN.

ZAIKOV, R., prof. d-r; NIKLEV, S., inzh.

Linear programing. Tekhnika Bulg 11 no.10:396-397 162.